



# The Renovator

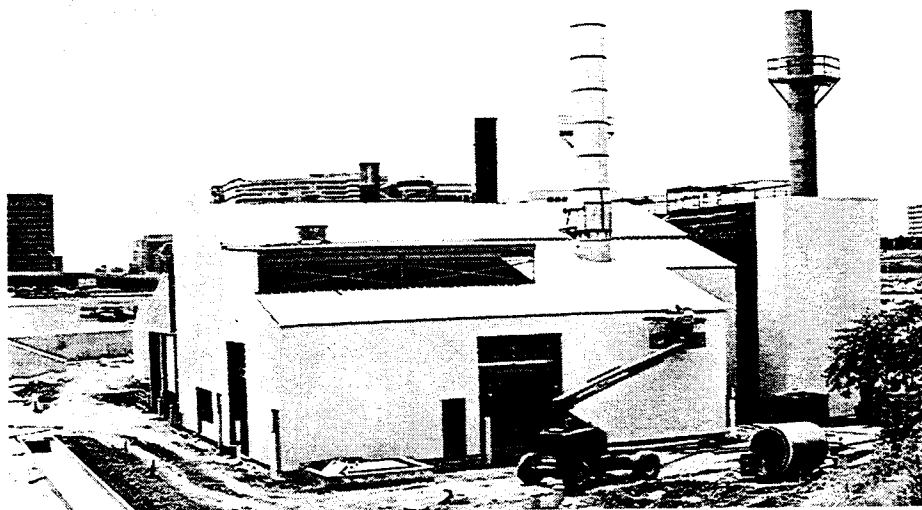
A Pentagon Renovation Construction Newsletter



US Army Corps  
of Engineers  
Baltimore District

Volume 2, Number 7

August 1995



The new insulated siding on the classified waste incinerator building will make the structure more energy efficient.

## New classified waste incinerator no secret

The first of the Pentagon's new classified waste incinerators begins operations later this fall according to Corps officials.

"Testing of the first new incinerator is expected in late September, but it will take several months to confirm that all systems are operating correctly," said Robert Wilson, classified waste incinerator project engineer, U.S. Army Corps of Engineers, Baltimore District, Pentagon Renovation Office.

The new two-ton per hour capacity incinerator is one of

two new incinerators being installed to replace the original incinerators.

The Pentagon's incinerators receive an enormous amount of Department of Defense classified waste each day, not only from the Pentagon but also from the surrounding areas.

The original incinerators included a one-ton per hour unit and a 1 1/2-ton per hour unit. Both were working at capacity and in deteriorating conditions; neither met the current federal and state air emission standards.

The new incinerator will operate on the same principles as the original incinerators, but with a much larger capacity. "The material is shredded, then burned and finally placed in a quench tank which wets the ash for disposal," said Wilson. The ash is then transferred to any waste facility, since only organic material remains.

While basic incinerating operations remain the same, the new incinerator offers vast improvements in maintenance and efficiency, according to Wilson. The new equipment is fully automated and the control room will be computer operated. "The new incinerators will require less manual work," said Wilson. New control room equipment also helps monitor the process by alerting personnel of problems.

The biggest improvement will be in the area of maintenance. "Previously, when an incinerator had to be serviced, shutting down the machine meant a backlog of classified waste," said Ken Ziegler, deputy chief, Defense Protective Services, Washington Headquarters Services.

With the greater capacity of the new incinerators, sufficient incineration will be maintained with improved security. Incinerator employees and customers will also benefit from the increased efficiency. (cont. p. 2)

## Incinerator (cont. from p.1)

emissions during the burning stage. "The new incinerator will meet both Virginia's and the Environmental Protection Agency's current air emission standards," said Wilson.

"The biggest challenge was that plans called for the new incinerators to be built in the existing building," said Wilson.

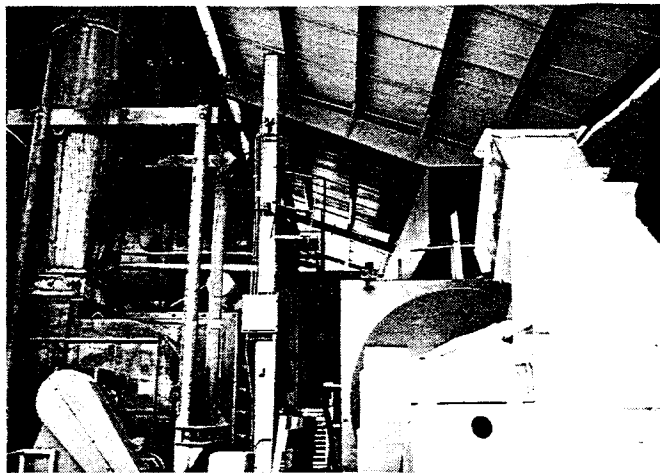
While the larger of the original incinerators remained operational, the smaller unit was removed and the new larger incinerator installed in its place.

In addition to installing the new incinerator, plans for the second incinerator had to be revisited. "The original plan was to build a new incinerator to replace the smaller one-ton per hour incinerator, while the 1 1/2-ton per hour machine would be retrofitted. But as time progressed, the larger machine was the only incinerator in use during the installation of the new unit, subsequently requiring its total replacement," said Wilson.

The process of procuring or upgrading an incinerator is also more extensive than what most people envision. "You cannot just simply go out and buy an incinerator package off the shelf," explained Wilson.

Requirements for the new incinerator were developed by Washington Headquarters Services' Space Policy and Acquisition Division and Defense Protective Services, and CH2M Hill, the design contractor.

Twigg, Corp., the construction contractor, is responsible for procuring and installing the parts of the incinerator, and refurbishing the existing incinerator building.



The new classified waste incinerator (right) stands beside the remaining original incinerator (left).

The existing building is rusted, noisy, and difficult to heat and cool. The refurbished building uses the same frame but replaces the siding and roofing with new insulated panels. The new siding and roofing has already been installed on a portion of the building.

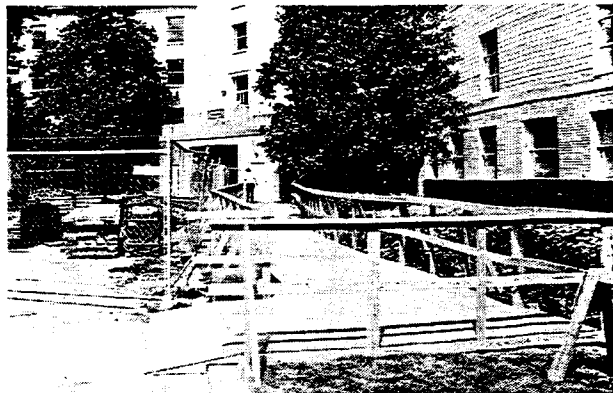
"The insulated panels improve the building climate and make the building more comfortable and energy efficient," said Wilson.

## Center Courtyard Tunnel work expands to apexes

The Center Courtyard Utility Tunnel work has expanded to include apex areas in front of the ground floor Corridors 5/6 and 9/10 building exits.

The ground floor entrance/exit at Corridors 5/6 and the drive at 9/10 are closed, but the second floor accesses remain open and special ramps have been built around the work area.

Progress continues, with the area between Corridors 7/8 and 9/10 scheduled for completion this fall.



Ramps now extend from the second floor Corridors 5/6 and 9/10 exits.

## Heating and Refrigeration Plant nears transition

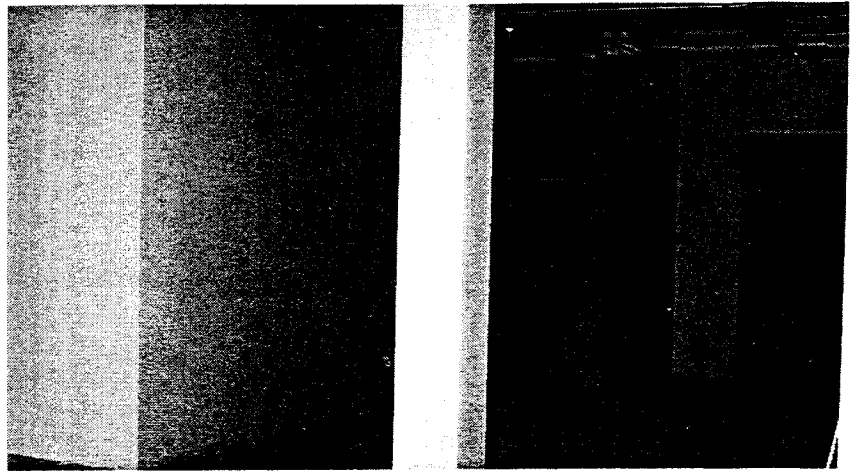
"After Labor Day, we'll begin performance testing," said Dave Gabel, Heating and Refrigeration Plant resident engineer, U.S. Army Corps of Engineers, Baltimore District, Pentagon Renovation Office. Following performance testing of the new equipment, gradual transitions to the new plant will begin.

"Four of the boiler stacks are here, and the final two should be here by the first of August," said Gabel.

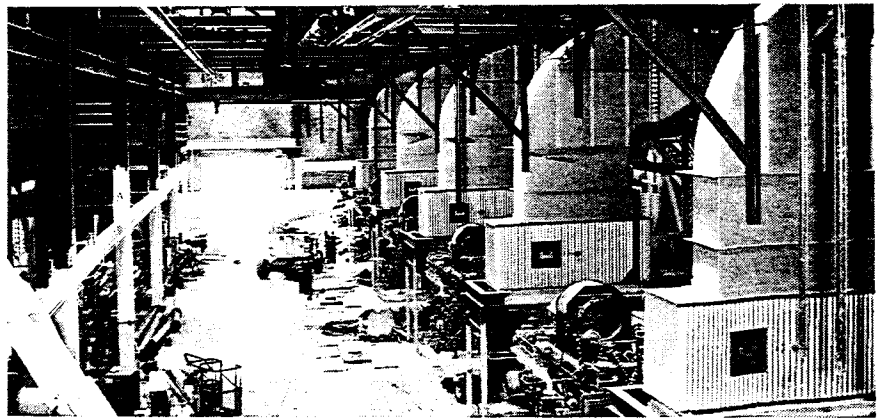
In addition to final adjustments to equipment, the office areas are also getting finishing touches. "The ceilings are ready; we're getting ready to put in the windows in the control room area and tile in the bathrooms; lockers are being installed; and the offices are being painted," said Gabel.

The exterior of the plant has also undergone some changes, with the area surrounding the plant being prepared for paving.

The Heating and Refrigeration Plant is 88 percent complete.



Office areas in the Heating and Refrigeration Plant receive the finishing touches.



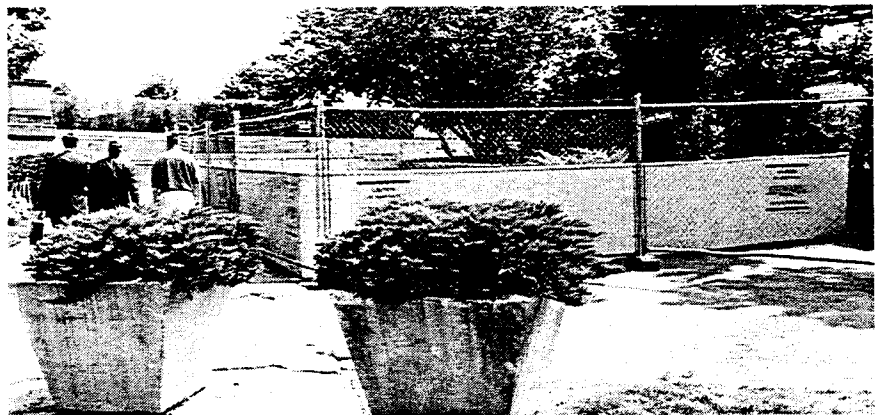
The six boilers near completion with the addition of the six stacks.

## Nighttime work begins on North Parking ramp

Construction fencing now designates the work area for the North Parking Pedestrian Ramp repair.

"While the fencing appears overwhelming and confining, access will remain unimpeded during normal work hours," said Susan Wong, project engineer.

The Corridor 8 building entrance/exit will be closed during the hours of 8 p.m. and 6 a.m. for safety reasons, but no further inconveniences should occur.



Construction fencing now surrounds the work area of the North Parking ramp.

## Evening repair of River Terrace planned

Deputy Secretary of Defense John P. White and the Pentagon Renovation Steering Committee have approved plans to repair and waterproof the expansion joints beneath the River Terrace parking area.

The work, scheduled to begin in August, will take place during the evening/night hours of 6 p.m. to 6 a.m. Day-time parking and ceremonial activities will not be affected.

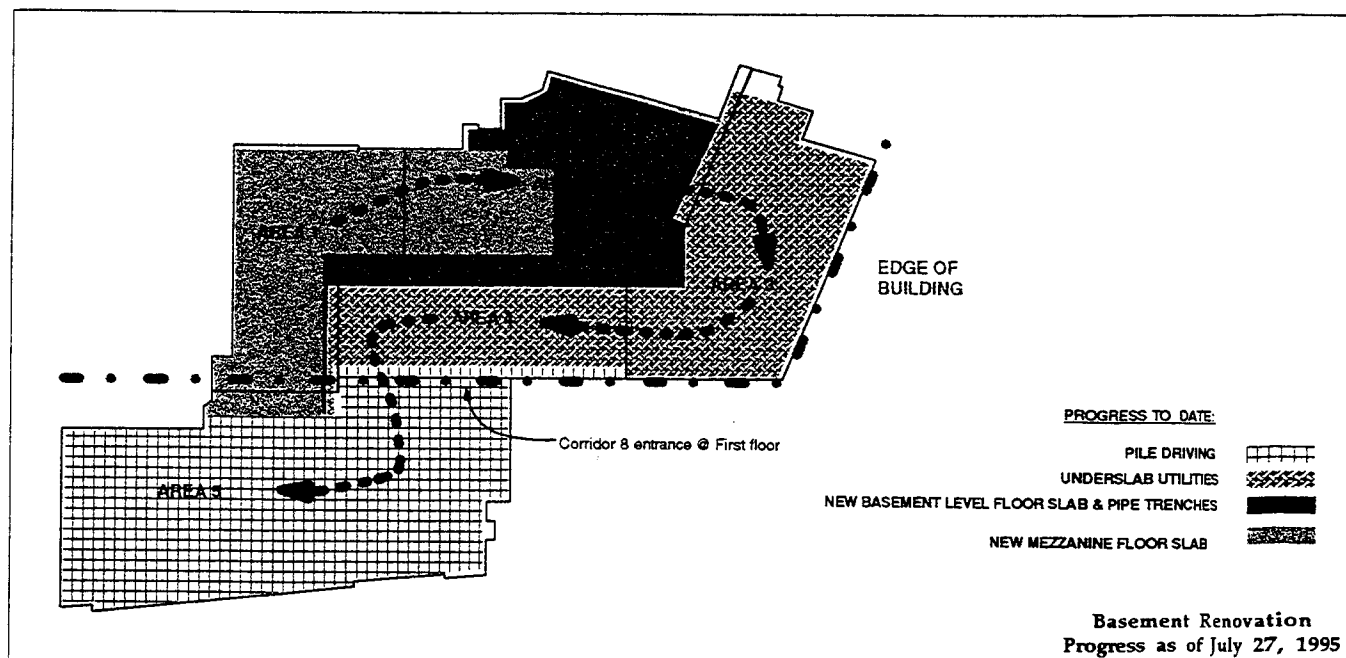
The area located beneath River Terrace parking includes the portion of the basement that previously housed the motor-pool.

During preparations for renovation activities, engineers uncovered deterioration caused by unsealed cracks within the expansion joints of the terrace.

The repairs are necessary to stop the deterioration and protect the structural integrity

of the River Terrace and the two levels of basement being renovated beneath the area.

The repairs will also allow a more thorough inspection of the corrosion. If the extent of the damage is greater than initially assessed, repair work, in conjunction with temporary parking, will be phased to minimize the impact on parking.



The monthly basement "progress to date" graphic.

*The Renovator* is a publication of the U.S. Army Corps of Engineers, Baltimore District, Pentagon Renovation Office. The U.S. Army Corps of Engineers is the design and construction management agent for Washington Headquarters Services Pentagon Renovation and Planning Office. *The Renovator* is an unofficial publication authorized under the provisions of AR360-81. Material from this publication may be reproduced without permission. Views and opinions expressed are not necessarily those of the Department of Defense or the Department of the Army.

District Engineer.....Col. Randall R. Inouye  
Deputy District Engineer.....Lt. Col. Christopher Boruch  
Resident Program Manager.....John Chubb  
Public Affairs Specialist & Editor.....Kim Speer

Department of the Army  
U.S. Army Corps of Engineers, Baltimore District  
Pentagon Renovation Office  
100 Boundary Channel Dr.  
Arlington, Va. 22202-3712  
Phone: (703) 693-8938 FAX: (703) 697-6722  
E-mail: [speerk@pentagon-reno.army.mil](mailto:speerk@pentagon-reno.army.mil)

*The Pentagon Renovation Office is located in the North Parking Lot.*